

Claims

1. Coil assembly for small electric or electronic devices such as in particular for the use in acoustic and/or medical areas, comprising at least one small coil

5 characterised in that the connections of the coil (5, 7, 25, 27) are interlinked directly on the coil (1, 21) by a component (9, 29), an assembly group and/or a circuit.

2. Assembly according to claim 1, characterised in that the connections of the coil (5, 7, 25, 27), directly on or
10 at the coil (1), are arranged on so-called connecting pads (6, 8) and interlinked by a component (9) and/or a circuit.

3. Assembly according to one of the claims 1 or 2, characterised in that the connections of the coil (5, 7, 25, 27) are arranged on one or more screens or small panels
15 which are firmly arranged on or at the coil comprising so-called pads (6, 8), the connections are interlinked with the use of a capacitor or a condenser (9, 29) and onto which pads connections from the outside (11, 13, 31, 33) are directed for the connection of the coil to the
20 exterior.

4. Assembly according to one of the claims 1 to 3, characterised in that directly on or at the coil (1, 21) in the area of the connections (5, 7, 25, 27) a screen or a small panel (4, 34) is arranged preferably consisting of a
25 polymeric material onto which small panels, on the side turned away from the coil, so-called connecting pads (6, 8, 26, 28) in particular made out of a metallic material, such as an electrically well conductive metal, are arranged, the connections (5, 7, 25, 27) of the coil are directed onto

these pads and soldered to the pads and are interlinked by the aid of a condenser or capacitor (9, 29) and onto which pads external connections (11, 13, 31, 33) are directed for connecting the coil to the exterior.

- 5 5. Assembly according to one of the claims 1 to 4, characterised in that the at least one small coil is a cylinder-like coil with connections arranged at a front side (42), which connections are connected with each other by a component such as a condenser or capacitor (9).
- 10 6. Assembly according to one of the claims 1 to 3, characterised in that the small coil is a ring-shaped coil or a so-called toroid coil, the two connections of the at least one coil (25) are arranged close to each other on the ring-shaped coil at a distance which is sufficient in order
- 15 to interlink the two connections by arranging a component or a circuit or assembly group.
7. Assembly according to one of the claims 1 to 6, characterised in that the component arranged between the connections is a capacitor or condenser, suitable for
- 20 lowering the frequency of the remote control signals received by the coil.
8. Assembly according to one of the claims 1 to 7, characterised in that on one coil body (2, 22, 63, 73) two or more coils (1, 21, 61, 71) are arranged, the coil
- 25 connections of at least one coil (5, 7, 25, 27, 65, 67, 75, 77) are connected with each other directly on the coil by the use of a component, an assembly group and/or a circuit.
9. Method for the production of a coil assembly according to one of the claims 1 to 8, characterised in that first

the connections of at least one small coil largely close to each other are directed onto so-called connecting pads, arranged on or at the coil, afterwards the two connections on the connection pads are interlinked, using one component or circuit, and finally connections supplied from the outside, such as cords or wires, are connected to the connections of the coils on the pads e.g. by soldering.

10. Use of the coil assembly according to one of the claims 1 to 8 for the reception of inductive signals or high-frequency signals in hearing aids or in devices for the transmission of telecommunication signals.

11. Use of the assembly according to one of the claims 1 to 8 such as remote control devices for the control of hearing aids or for devices in the medical field.